



NASA Competency Management System

Workforce Competency Dictionary

By Competency Title

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Title	Comp ID	Designator	Comp Stakeholder
Acoustics	103	ACOUSTICS	Engineering Community
Acquisition Planning	1093	ACQPLAN	Procurement Community
Acquisition and Contract Management	124	CONMMT	Procurement Community
Advanced Analysis and Design Method Development	91	AADMD	Engineering Community
Advanced Chemical & Thermal Prop	1052	APCHEM	Engineering Community
Advanced Experimentation and Testing Technologies	109	AETT	Engineering Community
Advanced In-Space Propulsion	72	ADVPRO	Engineering Community
Advanced Materials and Processing Science	65	ADVMATSCI	Engineering Community
Advanced Measurement, Diagnostics, and Instrumentation	111	ADVMDI	Engineering Community
Advanced Mission Analysis	89	ADVMIS	Engineering Community
Advanced Technical Training Design	3	ADVTEC	Center Operations Community
Aerodynamics	101	AERODYN	Engineering Community
Aeroelasticity	100	AEROELA	Engineering Community
Aerospace Medicine	36	AEROMED	Health & Medical Systems
Aerospace Systems Concept Development & Technology ...	90	ASCDTA	Engineering Community
Aerothermodynamics	102	AEROTHM	Engineering Community
Air Traffic Systems	108	AIRTRAFFIC	Engineering Community
Airbreathing Propulsion	69	AIRPRO	Engineering Community
Analytical and computational Fluid Mechanics	1058	RPFLUIDMCH	Engineering Community
Analytical and Computational Structural Methods	64	ACMSTR	Engineering Community
<i>Applied Aerodynamics (inactive)</i> INACTIVE	99	APPLAERO	Engineering Community
Astrobiology	54	ASTROBIO	Science Community
Astromaterials, Collections, Curation & Analysis	55	ASTROMATER	Science Community
Astronomy and Astrophysics	52	ASTRONOMY	Science Community
Avionics	21	AVIONICS	Engineering Community
Behavioral Health	1071	MDBEHAVIOR	Engineering Community
Bioengineering	58	BIOENG	Engineering Community
Bioethics	156	BIOETHICS	Health & Medical Systems
Biology and Biogeochemistry of Ecosystems	46	BBECO	Science Community
Biomechanical Engineering, Technology, Standards	1019	HFEBIOMECH	Safety & Mission Assurance
Biomechanics and Ergonomics Fundamental Research	1005	HFRBIOMECH	Safety & Mission Assurance
Biomedical and Research Clinical Ethics (BRCE)	1064	BRCE	Health & Medical Systems
Biomedical Engineering	35	BIOMEDENG	Engineering Community
Biomedical Research	34	BIOMEDRES	Science Community
Biomimetics	59	BIOMIMETIC	Engineering Community
Budgeting Management	119	BUDGETMMT	Financial Community
Business IT Systems	131	BITSYS	Information Technology
Business Management	113	BUSMMT	Center Operations Community
Business Work & Team Management	172	BUSWORKMMT	Agency / CM Program
Cell & Molecular Biology	31	CELLBIO	Science Community
Chemistry/ Chemical Engineering	25	CHEMENG	Engineering Community
Classification	1115	HCMCLASS	Human Resources Community
Clerical Student Trainee	1102	STUCLERICAL	Human Resources Community
Climate Change and Variability	164	CLIMATE	Science Community
Cognitive Science Fundamental Research	1010	HFRCOG	Safety & Mission Assurance
Cognitive Technologies	1024	HFECOG	Safety & Mission Assurance
Combustion Devices Design and Analysis	1054	RPCOMBUST	Engineering Community
Combustion Science	74	BOOMSCI	Science Community



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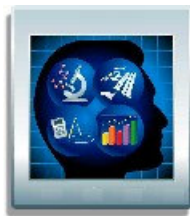
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Title	Comp ID	Designator	Comp Stakeholder
Commercial Law	1113	COMMLAW	General Counsel Community
Commercial Technology	117	COMTEC	External Relations Community
Communication and Knowledge Management Fundamen...	1011	HFRCOMM	Safety & Mission Assurance
Communication Networks & Engineering	60	COMNETENG	Engineering Community
Compensation	1116	HCMCOMP	Human Resources Community
Computer Systems and Engineering	80	COMPSYSENG	Engineering Community
Configuration Management	154	CONFIGMMT	Agency / CM Program
Construction Management	1096	FACCONSTMMT	Institutions Community
Contamination Control	1063	MSECONTAM	Engineering Community
Contract Formation	1094	CONFORMAT	Procurement Community
Contract Management and Performance Assessment	1095	CONPERFORM	Procurement Community
Contracts Law	1085	CONTRACTLAW	General Counsel Community
Control Components	1110	GNCCTLCOM	Engineering Community
Control Electronics	1111	GNCCTLELE	Engineering Community
Control Systems, Guidance & Navigation	22	GNC	Engineering Community
Cost Estimation and Analysis	121	COSTEST	Financial Community
Counterintelligence/Counterterrorism Analysis, Investigat...	1073	SECOUNTER	Security Mgmt Community
Crew Systems and Aviation Operations	97	CSAOPS	Engineering Community
Cryogenics Engineering	26	CRYOENG	Engineering Community
<i>Data Acquisition, Management and Storage Systems (use 1099)</i> INACTIVE	83	DAMSSYS	Engineering Community
Data Systems and Technology	161	DATSYS	Engineering Community
Data Visualization	1100	DATVISUAL	Engineering Community
<i>Data Visualization (use 1100)</i> INACTIVE	87	DATAVIS	Engineering Community
Database Management Systems	1080	DATDBMMT	Engineering Community
Decision Making and Risk Management Fundamental ...	1012	HFRDECISMK	Safety & Mission Assurance
Design and Development Engineering	8	DESDEVENG	Engineering Community
Detector Systems	96	DETECTSYS	Engineering Community
Developmental Biology	32	DEVELOPBIO	Science Community
Diversity Management	158	DIVERSEMMT	EEO Community
Dynamic Data Analysis	1059	RPDYNDATA	Engineering Community
Earth Atmosphere	44	EARTHATM	Science Community
Earth Science Applications Research	49	EARSQUIRES	Science Community
Earth System Modeling	50	EARSYSMODEL	Science Community
Education Programs and Technologies	137	EDTECH	Education Community
EEE Parts	1043	ELEPART	Engineering Community
Electric Propulsion	1050	APELEC	Engineering Community
Electrical and Electronic Systems	13	ELSYS	Engineering Community
Electrical Circuits Engineering	1045	ELCIRCUITS	Engineering Community
Electrical Design and Development Engineering	1029	DDEELECT	Engineering Community
Electrical Integration Engineering	1035	INTELECT	Engineering Community
Electrical Test Engineering	1040	TSTELECT	Engineering Community
Electromagnetics	12	ELMAG	Engineering Community
Electro-Mechanical Systems	15	ELMECHSY	Engineering Community
Electron Device Technology	14	ELDEVTEC	Engineering Community
Emergency Management	151	EMERGMMT	Safety & Mission Assurance
Employee & Team Leadership	1001	LEADTEAM	Agency / CM Program



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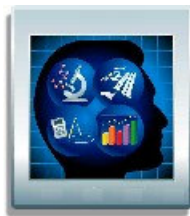
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Employee Assistance	1069	OCCASSIST	Health & Medical Systems
Employee Benefits	1117	HCMEMPBENF	Human Resources Community
Employee Development	1118	HCMEMPDEV	Human Resources Community
Employee Relations	1119	HCMEMPREL	Human Resources Community
Engineering and Science Support	11	ENGSCISUP	Engineering Community
Environmental Control and Life Support Systems	37	ECLSS	Engineering Community
Environmental Factors	39	ENVFACT	Engineering Community
Environmental/Real Property Law	1087	ENVLAW	General Counsel Community
Equal Opportunity Management	129	EEOMMT	EEO Community
Ergonomics Engineering, Technology, and Standards	1020	HFEERGO	Safety & Mission Assurance
Executive Management	170	EXECMMT	Agency / CM Program
Export Control	144	EXPORT	External Relations Community
Extravehicular Activity Systems	38	EAS	Engineering Community
Facilities Engineering and Management	112	FACENG	Institutions Community
Facilities Operations and Maintenance	1098	FACOPSMAN	Institutions Community
Facility Civil Engineering	1090	FACIVENG	Institutions Community
Facility Electrical Engineering	1092	FACELECENG	Institutions Community
Facility Mechanical Engineering	1091	FACMECHENG	Institutions Community
Failure Analysis	1062	MSEFAILURE	Engineering Community
Fatigue, Alertness, Circadian Rhythms Fundamental ...	1009	HFRFATIGUE	Safety & Mission Assurance
Financial Management	118	FINMMT	Financial Community
Fire Protection Engineering	143	FIREPROT	Safety & Mission Assurance
Flight and Ground Data Systems	19	FLTGNDSYS	Engineering Community
Flight Dynamics	98	FLTDYN	Engineering Community
Fluid Physics	43	FLUIDPHY	Engineering Community
Fluid Systems	106	FLUIDSYS	Engineering Community
Fundamental Human Factors Research	40	HUMFACTRES	Safety & Mission Assurance
Fundamental Physics	42	FUNPHYSICS	Science Community
General Law	1084	GENERALLAW	General Counsel Community
Geophysical/Geologic Science	45	GEOSCI	Science Community
Geospatial Science and Technologies	88	GEOSPATIAL	Science Community
Governmental Affairs	136	GOVAF	Legislative Affairs Community
Guidance Design and Analysis	1048	GNCGUIDE	Engineering Community
Habitability and Environmental Psychology Fundamental ...	1006	HFRHABIT	Safety & Mission Assurance
Habitability Engineering, Technology, and Standards	1022	HFEHABIT	Safety & Mission Assurance
Health Physics	1068	OCCPHYSICS	Health & Medical Systems
Human Capital Management	128	HUMCAPMMT	Human Resources Community
Human Factors Engineering	41	HUMFACTENG	Safety & Mission Assurance
Human Performance Fundamental Research	1018	HFRHUMPERF	Safety & Mission Assurance
Human Reliability and Human Error Analysis	1027	HFEHUMERR	Safety & Mission Assurance
Human-Automation System Design	1025	HFEHUMAUTO	Safety & Mission Assurance
Human-Machine Interaction Fundamental Research	1014	HFRHUMMACH	Safety & Mission Assurance
Hydrological Science	47	HYDROSCI	Science Community
Hypergolic Systems	71	HYPERSYS	Engineering Community
Hypersonic Airbreathing Propulsion	70	HAIRPRO	Engineering Community
Icing Physics	107	ICEPHYSICS	Science Community
Imaging Analysis	166	IMAGING	Engineering Community



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Industrial Hygiene	1067	OCCHYGIENE	Health & Medical Systems
Industrial Security	1077	SECINDUST	Security Mgmt Community
Information Resources Planning and Evaluation	1078	BITPLAN	Information Technology
Information Security	1074	SECINFO	Security Mgmt Community
Information Systems Security	1081	BITSECURE	Information Technology
Inspection, Investigation and Compliance	127	INSCOMP	Security Mgmt Community
Institutional Aircraft Operations	152	AIROPS	Center Operations Community
Institutional Environmental Engineering & Management	133	ENVENGMMT	Institutions Community
Institutional Environmental Planning/NEPA	1088	ENVPLAN	Institutions Community
Institutional Environmental Remediation	1089	ENVREMED	Institutions Community
<i>Institutional Facilities Operations</i> INACTIVE	146	INSFACOPS	Institutions Community
<i>Institutional Facilities Planning</i> INACTIVE	145	INSFACPLAN	Institutions Community
Institutional Logistics, Supply and Transportation	134	LOGSUPTRAN	Institutions Community
Instrumentation Systems	1042	ELINSTR	Engineering Community
Integrated Logistics Support	162	INTLOGSUP	Center Operations Community
Integration Engineering	9	INTEGENG	Engineering Community
Intellectual Property Law	1083	INTLPROPLAW	General Counsel Community
Intelligent/Adaptive Systems	85	IASYS	Engineering Community
Internal Control / Audit	120	INTAUD	Financial Community
International Law	1112	INTLLAW	General Counsel Community
International Program Development	157	INTLPGMDEV	External Relations Community
International Relations	1004	LEADGLOBAL	Agency / CM Program
IT Architecture	1079	BITARCH	Information Technology
Knowledge & Communication Management	1002	LEADCOMM	Agency / CM Program
Labor Relations	1120	HCMLABOR	Human Resources Community
Large Scale Data Systems	1099	DATLARGE	Engineering Community
Laser Technology	92	LASER	Engineering Community
Legal Application Practice	125	LEGALAPP	General Counsel Community
Legal Assistance	176	LEGALSUP	General Counsel Community
Liquid Engine Systems	1109	LIQUIDENG	Engineering Community
Manual Control Fundamental Research	1015	HFRMANCNTL	Safety & Mission Assurance
Manufacturing Engineering	24	MANUFACT	Engineering Community
Master Planning	167	MASTERPLAN	Institutions Community
Materials Integration Engineering	1033	INTMATER	Engineering Community
Materials Science and Engineering	66	MATSCIENG	Engineering Community
Materials Test Engineering	1038	TSTMATER	Engineering Community
Mathematical Modeling & Analysis	86	MMA	Engineering Community
Mechanical Systems	17	MECHSYS	Engineering Community
Mechanics and Durability	62	MECHDUR	Engineering Community
Medical Practice	1070	MDPRACTICE	Engineering Community
Metallurgy	1060	MSEMETAL	Engineering Community
Metrology and Calibration Competency	160	METROLOGY	Engineering Community
Micro-Electromechanical Systems	16	MICROELMEC	Engineering Community
Microwave Systems	94	MICROSYS	Engineering Community
Mishap Investigation	149	MISHAPINV	Safety & Mission Assurance
Mission Analysis and Planning	1	MAP	Engineering Community
Mission Assurance	30	MA	Safety & Mission Assurance



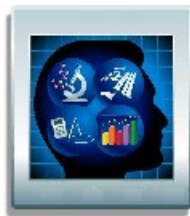
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Mission Execution	4	MISEXC	Center Operations Community
Mission Flight Design	2	FLTDSG	Engineering Community
Nanoscience	56	TINYSCI	Science Community
Nanotechnology	57	TINYTEC	Engineering Community
NASA Leadership Competency	140	NASALEADER	Agency / CM Program
National Security Systems	1075	SECNATION	Security Mgmt Community
Navigation System Design and Analysis	1049	GNCNAVSYS	Engineering Community
Network Systems and Technology	81	NETSYS	Engineering Community
Neural Networks & Systems	84	NEUNETSYS	Engineering Community
<i>Neurobiology (use 34)</i> INACTIVE	33	NEUROBIO	Science Community
Non-destructive Evaluation Sciences	67	NONDESSCI	Engineering Community
Non-metallics	1061	MSENONMET	Engineering Community
Nuclear Engineering/Propulsion	138	NUCLEARENG	Engineering Community
Occupational and Environmental Health	130	OCCHEALTH	Health & Medical Systems
Occupational Medicine	1066	OCCMED	Health & Medical Systems
Oceanographic Science	48	OCEANSCI	Science Community
Optical Systems	93	OPTSYS	Engineering Community
Organizational Science Fundamental Research	1013	HFRORG	Safety & Mission Assurance
Paralegal	1082	PARALEGAL	General Counsel Community
Para-Professional Business Operations	165	PARABUSOPS	Agency / CM Program
Partnership & Business Development	116	BUSDEV	External Relations Community
Parts & Packaging	1044	ELPARTSPKG	Engineering Community
Patent Agent	1114	PATENTAGT	General Counsel Community
Payload Integration	5	PAYLOADINT	Center Operations Community
Perception and Psychophysics Fundamental Research	1007	HFRPERCEPT	Safety & Mission Assurance
Perceptual Technologies and Standards	1023	HFEPERCEPT	Safety & Mission Assurance
Performance Management	1121	HCMPERFMGT	Human Resources Community
<i>Personal Communication</i> INACTIVE	141	PERSCOMM	Human Resources Community
Personnel Security	1076	SECPERSON	Security Mgmt Community
Personnel/EEO Law	1086	PERSONLAW	General Counsel Community
Physical Security	1072	SECPHYSCL	Security Mgmt Community
Planetary Atmospheres	163	PLANETATM	Science Community
Planetary Science	53	PLANETSCI	Science Community
Policy Management	169	POLICYMMT	Institutions Community
Power - Energy Storage	76	PWRENG	Engineering Community
Power Generation - Photovoltaics	77	PWRPHO	Engineering Community
Power Generation - Thermal Systems	78	PWRTHM	Engineering Community
Power Systems	75	PWRSYS	Engineering Community
Precursor Analysis	1107	PRECURSOR	Safety & Mission Assurance
Probabilistic Risk Assessment	1105	PROBRISK	Safety & Mission Assurance
Process Engineering	114	PROCESSENG	Engineering Community
Professional Administrative Operations	115	PROFADMOPS	Center Operations Community
Professional Administrative Student Trainee	1103	STUPROFADM	Human Resources Community
Program/Project Analysis	147	PROJANALYSIS	Agency / CM Program
Program/Project Management	122	PROJPROGMT	Agency / CM Program
Project Work & Team Management	173	PROWORKMMT	Agency / CM Program
Propellant Management Systems Design and Analysis	1056	RPPRPMMT	Engineering Community



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Propellantless Prop	1051	APNOPROP	Engineering Community
Propulsion Design and Development Engineering	1030	DDEPROP	Engineering Community
Propulsion Integration Engineering	1036	INTPROPEL	Engineering Community
Propulsion Systems & Testing	68	PROSYS	Engineering Community
Propulsion Test Engineering	1041	TSTPROP	Engineering Community
Psychophysiology Fundamental Research	1008	HFRPSYPHY	Safety & Mission Assurance
Public Communications & Outreach	135	PUBLICOMM	Public Affairs Community
Pyrotechnics	18	PYROTECH	Engineering Community
Quality Engineering & Assurance	29	QEA	Safety & Mission Assurance
Real Property Management	1097	FACPROPERTY	Institutions Community
Recruitment/Placement	1122	HCMRECRUIT	Human Resources Community
<i>Relationship Management</i> INACTIVE	142	RELATIONSHIP	Human Resources Community
Reliability & Maintainability Engineering & Assurance	28	RMEA	Safety & Mission Assurance
Remote Sensing Technologies	95	REMOTESENS	Engineering Community
<i>Research Facilities Operations</i> INACTIVE	148	RESFACOPS	Institutions Community
<i>Research Facilities Planning</i> INACTIVE	132	RESFACPLAN	Institutions Community
Research Subject Protection Regulation (RSPR)	1065	RSPR	Health & Medical Systems
Research, Development or Flight Facility Planning	168	FACLTYPAN	Institutions Community
Risk Management	123	RISKMMT	Safety & Mission Assurance
Robotics	79	ROBOTICS	Engineering Community
Rocket Propulsion	73	ROCKETPRO	Engineering Community
Safety Engineering and Assurance	27	SAFENG	Safety & Mission Assurance
Security & Program Protection	126	SECURITY	Security Mgmt Community
Sensors & Data Acquisition	20	AEROSSEN	Engineering Community
Simulation Systems	175	SIMULATE	Engineering Community
Simulation/Flight Research Systems	110	SIMFLTSYS	Engineering Community
Software Assurance Engineering	139	SWASSURANCE	Safety & Mission Assurance
Software Engineering	82	SWENG	Engineering Community
Solid & Hybrid Motor Systems	1108	SOLIDENG	Engineering Community
Space Environments Science and Engineering	155	SPACE_ENV	Engineering Community
Space Human Factors Engineering, Technology, ...	1021	HFESPACE	Safety & Mission Assurance
Space Physics	51	SPACEPHY	Science Community
Spacecraft & Stabilization Control Design and Analysis	1046	GNCSPACE	Engineering Community
Spacecraft and Auxiliary Propulsion System Design ...	1057	RPAUXPRP	Engineering Community
Structural Design and Development Engineering	1028	DDESTRUCT	Engineering Community
Structural Dynamics	61	STRUCTDYN	Engineering Community
Structural Integration Engineering	1032	INTSTRUCT	Engineering Community
<i>Structural Systems (use 1028)</i> INACTIVE	63	STRUCTSYS	Engineering Community
Structural Test Engineering	1037	TSTSTRUCT	Engineering Community
Student Trainee	174	STUDENT	Human Resources Community
Supervisory Control Fundamental Research	1016	HFRSUPCNTL	Safety & Mission Assurance
System Safety	1104	SYSSAFETY	Safety & Mission Assurance
Systems Engineering	7	SYSTEMSENG	Engineering Community
Systems Integration Engineering	1034	INTSYSTEMS	Engineering Community
Technical Management	153	TECHMMT	Agency / CM Program
Technical Student Trainee	1101	STUTECH	Human Resources Community
Technical Work & Team Management	171	TECWORKMMT	Agency / CM Program



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Terrestrial & Planetary Environments Science & Engineer...	23	PLANETENV	Engineering Community
Test Engineering	10	TESTENG	Engineering Community
Test Fixtures and GSE Design and Development Eng...	1031	DDETEST	Engineering Community
Thermal Structures	105	THERMALSTR	Engineering Community
Thermal Systems	104	THERMALSYS	Engineering Community
Thermal Test Engineering	1039	TSTTHERMO	Engineering Community
Training and Adaptation Fundamental Research	1017	HFTRTRNG	Safety & Mission Assurance
Training Technologies	1026	HFETRNG	Safety & Mission Assurance
Trend Analysis	1106	TREND	Safety & Mission Assurance
Turbomachinery Design and Analysis	1053	RPTURBO	Engineering Community
Valves, Lines & Ducts	1055	RPVALVES	Engineering Community
Vehicle Control Design and Analysis	1047	GNCVEHCNTL	Engineering Community
Weather Observation and Forecasting	6	WOBSFR	Center Operations Community
Wireless Communications and Telemetry	159	WIRELESS	Engineering Community
Work Performance Leadership	1003	LEADWORK	Agency / CM Program
Workforce Planning	1123	HCMWORKPLN	Human Resources Community
Workplace Safety	150	WORKSAFETY	Safety & Mission Assurance